09856819.052401
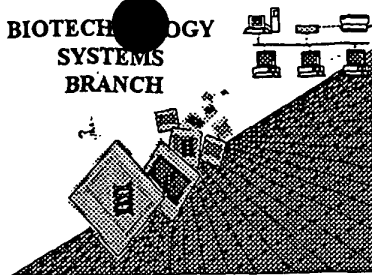
BIOTECH●OGY
SYSTEMS
BRANCH

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: _09/856,819_

Source: _PCT/09_

Date Processed by STIC: _6/18/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
    APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
    NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0
The Checker Version 3.0 application is a state-of the-art Windows based software program
employing a logical and intuitive user-interface to check whether a sequence listing is in
compliance with format and content rules. Checker Version 3.0 works for sequence listings
generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old
rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual
Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-
compliant. Checker allows public users to check sequence listings in Computer Readable form
(CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence
listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

```
            RAW SEQUENCE LISTING                DATE: 06/18/2001
            PATENT APPLICATION:  US/09/856,819  TIME: 16:21:20

            Input Set : A:\5559.ST25.txt
            Output Set: N:\CRF3\06182001\I856819.raw

     3 <110> APPLICANT: Bojsen, Kirsten
     4         Svendsen, Allan
     5         Fuglsang, Claus
     6         Patkar, Shamkant
     7         Borch, Kim
     8         Vind, Jesper
     9         Petri, Andreas
    10         Glad, Sanne
    11         Budolfsen, Gitte
    13 <120> TITLE OF INVENTION: Lipolytic Enzyme Variants
    15 <130> FILE REFERENCE: 5559.204-US
    17 <140> CURRENT APPLICATION NUMBER: US/09/856,819
    18 <141> CURRENT FILING DATE: 2001-05-24
    20 <150> PRIOR APPLICATION NUMBER: PCT/DK99/00664
    21 <151> PRIOR FILING DATE: 1999-12-29
    23 <160> NUMBER OF SEQ ID NOS: 14
    25 <170> SOFTWARE: PatentIn version 3.0
    27 <210> SEQ ID NO: 1
    28 <211> LENGTH: 24
    29 <212> TYPE: DNA
    30 <213> ORGANISM: Artificial
    32 <220> FEATURE:
    33 <223> OTHER INFORMATION: Primer
    35 <400> SEQUENCE: 1
    36 tcaagaatag ttcaaacaag aaga                               24
    39 <210> SEQ ID NO: 2
    40 <211> LENGTH: 24
    41 <212> TYPE: DNA
    42 <213> ORGANISM: Artificial
    44 <220> FEATURE:
    45 <223> OTHER INFORMATION: Primer
    47 <400> SEQUENCE: 2
    48 ggttgtctaa ctccttcctt ttcg                               24
    51 <210> SEQ ID NO: 3
    52 <211> LENGTH: 19
    53 <212> TYPE: DNA
    54 <213> ORGANISM: Artificial
    56 <220> FEATURE:
    57 <223> OTHER INFORMATION: Primer
    59 <400> SEQUENCE: 3
    60 tgtcccymgw ctccckcck                                     19
    63 <210> SEQ ID NO: 4
    64 <211> LENGTH: 27
    65 <212> TYPE: DNA
    66 <213> ORGANISM: Artificial
    68 <220> FEATURE:
    69 <223> OTHER INFORMATION: Primer
```

Does Not Comply
Corrected Diskette Needed

MR 1-5

```
 71 <400> SEQUENCE: 4
 72 gaagtamyry agrtgmgcag sratatc                                    27
 75 <210> SEQ ID NO: 5
 76 <211> LENGTH: 27
 77 <212> TYPE: DNA
 78 <213> ORGANISM: Artificial
 80 <220> FEATURE:
 81 <223> OTHER INFORMATION: Primer
 83 <400> SEQUENCE: 5
 84 gatatysctg ckcayctryr ktacttc                                    27
 87 <210> SEQ ID NO: 6
 88 <211> LENGTH: 23
 89 <212> TYPE: DNA
 90 <213> ORGANISM: Artificial
 92 <220> FEATURE:
 93 <223> OTHER INFORMATION: Primer
 95 <400> SEQUENCE: 6
 96 cggaatgtta ggctggttat tgc                                        23
 99 <210> SEQ ID NO: 7
100 <211> LENGTH: 20
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Primer
107 <400> SEQUENCE: 7
108 cttttcggtt agagcggatg                                            20
111 <210> SEQ ID NO: 8
112 <211> LENGTH: 120
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Primer
119 <220> FEATURE:
120 <221> NAME/KEY: misc_feature
121 <223> OTHER INFORMATION: 1: A 90, C 10
124 <220> FEATURE:
125 <221> NAME/KEY: misc_feature
126 <223> OTHER INFORMATION: 7: G 48, A 2, T 2, C 48
129 <220> FEATURE:
130 <221> NAME/KEY: misc_feature
131 <223> OTHER INFORMATION: 8: A 92, T 8
134 <220> FEATURE:
135 <221> NAME/KEY: misc_feature
136 <223> OTHER INFORMATION: 9: A 97, T 3
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <223> OTHER INFORMATION: 10: G 1, A 1, T 1, C 97
144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature
```

[Handwritten annotations:]

Per 1.823 of Sequence Rules, insert <222> and response whenever "n" or "Xaa" is shown. <222> is the numeric identifier for location. Please edit all sequences.

<222> 58

<222> 59

<222> 60
(samples)

FYI! "n" can only represent a single nucleotide

Does this mean that "n" represents "A" 90% of instances and "C" 10% of instances?

RAW SEQUENCE LISTING   DATE: 06/18/2001
PATENT APPLICATION: US/09/856,819   TIME: 16:21:20

Input Set : **A:\5559.ST25.txt**
Output Set: **N:\CRF3\06182001\I856819.raw**

```
146 <223> OTHER INFORMATION: 11: G 1, A 97, T 1, C 1
149 <220> FEATURE:
150 <221> NAME/KEY: misc_feature
151 <223> OTHER INFORMATION: 12: G 94, A 2, T 2, C 2
154 <220> FEATURE:
155 <221> NAME/KEY: misc_feature
156 <223> OTHER INFORMATION: 13: G 1, A 1, T 91, C 7
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <223> OTHER INFORMATION: 1: A 90, C 10
164 <220> FEATURE:
165 <221> NAME/KEY: misc_feature
166 <223> OTHER INFORMATION: 14: G 1, A 1, T 7, C 91
169 <220> FEATURE:
170 <221> NAME/KEY: misc_feature
171 <223> OTHER INFORMATION: 15: G 2, A 2, T 2, C 94
174 <220> FEATURE:
175 <221> NAME/KEY: misc_feature
176 <223> OTHER INFORMATION: 16: A 80, T 20
179 <220> FEATURE:
180 <221> NAME/KEY: misc_feature
181 <223> OTHER INFORMATION: 17: G 6, A 90, T 2, C 2
184 <220> FEATURE:
185 <221> NAME/KEY: misc_feature
186 <223> OTHER INFORMATION: 18: G 2, A 2, T 94, C 2
189 <220> FEATURE:
190 <221> NAME/KEY: misc_feature
191 <223> OTHER INFORMATION: 19: G 5, A 91, T 4
194 <220> FEATURE:
195 <221> NAME/KEY: misc_feature
196 <223> OTHER INFORMATION: 20: G 96, C 94
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <223> OTHER INFORMATION: 21: G 4, T 5, C 91
204 <220> FEATURE:
205 <221> NAME/KEY: misc_feature
206 <223> OTHER INFORMATION: 22: G 4, C 96
209 <220> FEATURE:
210 <221> NAME/KEY: misc_feature
211 <223> OTHER INFORMATION: 23: G 94, C 3, T 3
214 <220> FEATURE:
215 <221> NAME/KEY: misc_feature
216 <223> OTHER INFORMATION: 6: G 91, A 3, T 3, C 3
219 <220> FEATURE:
220 <221> NAME/KEY: misc_feature
221 <223> OTHER INFORMATION: 5: G 2, A 13, T 4, C 81
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <223> OTHER INFORMATION: 4: G 2, A 4, T 5, C 89
```

add <222> and response to each <2207-<2237 section.

RAW SEQUENCE LISTING   DATE: 06/18/2001
PATENT APPLICATION: US/09/856,819   TIME: 16:21:20

Input Set : A:\5559.ST25.txt
Output Set: N:\CRF3\06182001\I856819.raw

```
    229 <220> FEATURE:
    230 <221> NAME/KEY: misc_feature
    231 <223> OTHER INFORMATION: 5: G 2, A 13, T 4, C 81
    234 <220> FEATURE:
    235 <221> NAME/KEY: misc_feature
    236 <222> LOCATION: (64)..(64)
    237 <223> OTHER INFORMATION: 3: A 25, T 75
    240 <220> FEATURE:
    241 <221> NAME/KEY: misc_feature
    242 <222> LOCATION: (62)..(62)
    243 <223> OTHER INFORMATION: 4: G 2,A 4,T 5,C 89
    246 <220> FEATURE:
    247 <221> NAME/KEY: misc_feature
    248 <222> LOCATION: (61)..(61)
    249 <223> OTHER INFORMATION: 3: A 25, T 75
    252 <220> FEATURE:
    253 <221> NAME/KEY: misc_feature
    254 <223> OTHER INFORMATION: @: G 3,A 91, T3,C3
    257 <400> SEQUENCE: 8
W--> 258 gtaagcgtga cataactaat tacatcatgc ggccctctag agtcgaccca gccgctannn    60
W--> 260 nnnnnnsnnc nannnsnnnn nnnntnncnn gaagtaccat aggtgcgcag ngatatccgg   120
    263 <210> SEQ ID NO: 9
    264 <211> LENGTH: 117
    265 <212> TYPE: DNA
    266 <213> ORGANISM: Artificial
    268 <220> FEATURE:
    269 <223> OTHER INFORMATION: Primer
    271 <220> FEATURE:
    272 <221> NAME/KEY: misc_feature
    273 <223> OTHER INFORMATION: 8: A 92, T8
    276 <220> FEATURE:
    277 <221> NAME/KEY: misc_feature
    278 <223> OTHER INFORMATION: 23: G 94, C 3, T 3
    281 <220> FEATURE:
    282 <221> NAME/KEY: misc_feature
    283 <223> OTHER INFORMATION: 9: A 97, T 3
    286 <220> FEATURE:
    287 <221> NAME/KEY: misc_feature
    288 <223> OTHER INFORMATION: 10: G 1, A 1, T .1, C 97
    291 <220> FEATURE:
    292 <221> NAME/KEY: misc_feature
    293 <223> OTHER INFORMATION: 11: G 1, A 97, T 1, C 1
    296 <220> FEATURE:
    297 <221> NAME/KEY: misc_feature
    298 <223> OTHER INFORMATION: 12: G 94, A 2, T 2, C 2
    301 <220> FEATURE:
    302 <221> NAME/KEY: misc_feature
    303 <223> OTHER INFORMATION: 13: G 1, A 1, T 91, C 7
    306 <220> FEATURE:
```

Add ¶227 and response
for each ¶207-¶237
section.

```
307 <221> NAME/KEY: misc_feature
308 <223> OTHER INFORMATION: 1: A 90, C 10
311 <220> FEATURE:
312 <221> NAME/KEY: misc_feature
313 <223> OTHER INFORMATION: 14: G 1, A 1, T 7, C 91
316 <220> FEATURE:
317 <221> NAME/KEY: misc_feature
318 <223> OTHER INFORMATION: 15: G 2, A 2, T 2, C 94
321 <220> FEATURE:
322 <221> NAME/KEY: misc_feature
323 <223> OTHER INFORMATION: 16: A 80, T 20
326 <220> FEATURE:
327 <221> NAME/KEY: misc_feature
328 <223> OTHER INFORMATION: 17: G 6, A 90, T 2, C 2
331 <220> FEATURE:
332 <221> NAME/KEY: misc_feature
333 <223> OTHER INFORMATION: 18: G 2, A 2, T 94, C 2
336 <220> FEATURE:
337 <221> NAME/KEY: misc_feature
338 <223> OTHER INFORMATION: 19: G 5, A 91, T 4
341 <220> FEATURE:
342 <221> NAME/KEY: misc_feature
343 <223> OTHER INFORMATION: 20: G 96, C 4 ·
346 <220> FEATURE:
347 <221> NAME/KEY: misc_feature
348 <223> OTHER INFORMATION: 21: G 4, T 5, C 91
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <223> OTHER INFORMATION: 22: G 4, C 96
356 <400> SEQUENCE: 9
357 gtaagcgtga cataactaat tacatcatgc ggccctctag agtcgaccca gccgcgccgc      60
359 gcactacnan nnsnnnnnnn ntnncnngaa gtaccatagg tgcgcagnga tatccgg        117
362 <210> SEQ ID NO: 10
363 <211> LENGTH: 120
364 <212> TYPE: DNA
365 <213> ORGANISM: Artificial
367 <220> FEATURE:
368 <223> OTHER INFORMATION: Primer
370 <220> FEATURE:
371 <221> NAME/KEY: misc_feature
372 <223> OTHER INFORMATION: 1: A 90, C 10
375 <220> FEATURE:
376 <221> NAME/KEY: misc_feature
377 <223> OTHER INFORMATION: 2: G 3, A 91, T 3, C 3
380 <220> FEATURE:
381 <221> NAME/KEY: misc_feature
382 <223> OTHER INFORMATION: 3: A 25, T 75
385 <220> FEATURE:
386 <221> NAME/KEY: misc_feature
```

W-->

add <222> to each
<220> - <223>
section

VERIFICATION SUMMARY   DATE: 06/18/2001
PATENT APPLICATION: US/09/856,819   TIME: 16:21:21

Input Set : A:\5559.ST25.txt
Output Set: N:\CRF3\06182001\I856819.raw

```
L:17  M:270 C: Current Application Number differs, Replaced Current Application Number
L:18  M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:30  M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:42  M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:54  M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:66  M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:78  M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:90  M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:102 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:114 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:266 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:359 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:365 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:511 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10
L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:513 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10
L:513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:519 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:533 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:547 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:561 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
```